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2003 Annual Crop Summary

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2003 Crops, United States

United States production of corn, wheat, sorghum and cotton increased from a year earlier, while soybean, rice, hay and tobacco production declined. Total area of principal crops harvested in the U.S. amounted to 307 million acres, up 2 percent from 2002 and 1 percent above 2001.

April weather was mostly dry in the northern Great Plains, northern Corn Belt and upper Mississippi Valley, permitting nationwide planting to progress ahead of normal by the end of the month for corn, spring wheat, oats and rice, while progress was normal for soybeans and sorghum. Rainfall during mid-May slowed fieldwork in the Corn Belt and Great Plains but warm, dry weather of late May promoted planting, emergence and development of crops. Planting of corn at the end of May was behind normal but close to completion. Soybean planting and emergence progressed behind normal through June, with cool temperatures slowing growth of row crops and delaying maturation of wheat.

Corn and soybean crop development fell further behind normal in July, with cool, wet conditions prevailing in the eastern half of the Nation and hot, dry weather in the western half. Row crop development was more rapid during August but the hot weather stressed most crops. Hot weather continued into September but moderate to heavy precipitation in the Corn Belt gave way to cool weather in the last half of the month. The later than normal maturity of row crops delayed early harvesting but most farmers reached completion of harvest before mid-November.

Soybeans: Production in 2003 totaled 2.42 billion bushels, 12 percent below 2002 and the lowest since 1996. The average yield in 2003 is estimated at 33.4 bushels per acre, 4.6 bushels below the 2002 yield and the lowest since 1993. Yields were lower than a year earlier in the Northern Great Plains, upper and middle Mississippi Valley and Great Lakes areas as dry conditions persisted. However, yields were higher in some of the southern and Atlantic Coast States. Farmers harvested 72.3 million of the 73.4 million planted acres, 1 percent less than a year earlier.

Corn: Production is estimated at 10.1 billion bushels, up 12 percent from the 9.01 billion bushels produced in 2002. The average U.S. grain yield is estimated at 142.2 bushels per acre, 12.2 bushels above 2002. Both production and yield estimates set records. Planted area totaled 78.7 million acres, down fractionally from a year earlier. Acres harvested for grain totaled 71.1 million, up 3 percent from 2002. Farmers harvested 6.53 million acres for silage, 13 percent less than in 2002. Silage yields averaged 16.2 tons per acre, up 2.2 tons from a year earlier.

Wheat: All wheat production for 2003 totaled 2.34 billion bushels, 44 percent above a year earlier. The 2003 winter wheat production totaled 1.71 billion bushels, 49 percent above 2002. Winter wheat yields averaged 46.7 bushels, up

8.2 bushels from 2002, while harvested acres of 36.5 million showed a 23 percent increase. **Other spring wheat** production amounted to 533 million bushels, up 35 percent from 2002, and **durum** wheat production accounted for 96.6 million bushels, 22 percent more than a year earlier.

Sorghum: Production in 2003 is estimated at 411 million bushels, up 11 percent from 2002. Area harvested for grain totaled 7.80 million acres, up 7 percent. Average grain yield, at 52.7 bushels per acre, is 2.0 bushels above the 2002 average yield.

Cotton: Production in the U.S. is estimated at 18.2 million bales, 6 percent above last year's production. Yield is indicated at a record high 725 pounds per harvested acre, up 60 pounds per harvested acre from a year ago. Harvested acres totaled 12.1 million, 3 percent less than in 2002. Upland cotton production accounted for 17.8 million bales of the total production.

Rice: Production in 2003 totaled 199 million cwt, down 6 percent from 2002. Of the total production, long grain rice accounted for 149 million cwt. The average yield per acre for all U.S. rice is estimated at 6,645 pounds per acre, 67 pounds above 2002 and the highest on record. Harvested acres totaled 3.0 million, 7 percent less than the previous year.

Potatoes: Production from all four seasons is estimated at 459 million cwt, virtually unchanged from 2002. The average yield, at 367 cwt per acre, is 5 cwt above last year and 9 cwt above the 2001 crop. Harvested acres totaled 1.25 million, 2 percent below a year earlier.

Oats: Production is estimated at 145 million bushels, 22 percent above the 2002 production. The estimated yield is 65.0 bushels per acre, 8.3 bushels above 2002. Acres harvested for grain were up 6 percent at 2.22 million.

Tobacco: Production in 2003 totaled 831 million pounds, 5 percent below 2002. Growers harvested 416,210 acres, 3 percent below last year. Yield per acre averaged 1,997 pounds, down 52 pounds from a year earlier.

All Hay: Production is estimated at 157 million tons, up 4 percent from the 2002 crop. Acreage harvested, at 63.3 million acres, is down 2 percent from 2002. The average U.S. yield at 2.48 tons was up 0.14 ton from the previous year. **Alfalfa hay** production accounted for 76.3 million tons, 3 percent above 2002. Harvested area increased 2 percent from 2002 to 23.6 million acres, while yields averaged 3.24 tons, up 0.05 ton. **All other hay** production totaled 80.8 million tons, up 5 percent from 2002. Area for harvest, at 39.8 million acres, declined 4 percent from the previous year, but the average yield increased 0.17 ton to 2.03 tons.

2003 Crops, Missouri

Fieldwork had begun throughout the State by the first week of April. Periodic rainfall caused some delay during the month but by the end of April over 70 percent of the ground intended for spring crops had been worked at least once and 60 percent of the corn had been planted, both slightly ahead of the 5-year average. Rainfall in both April and May averaged above normal but distribution was uneven. Several southeastern counties received from 6 to 10 inches of rain in early May, most of which occurred early in the month, while many northern counties received only minimal amounts. Corn planting was virtually completed by June 1 and soybeans were 65 percent planted, both slightly ahead of average, but cotton was over a week behind average at 93 percent planted.

Late row crop planting was completed in June. Crops made good growth as rainfall was sufficient in most areas to maintain a favorable outlook. Wheat harvesting began around mid-month and quickly spread over the State. Exceptional wheat yield averages in all areas were soon apparent. Serious moisture shortages were developing by early July in the northwest, west-central and central districts of the State and crop condition began to decline as the month progressed. July rainfall averaged 2.5 inches, well below average, as many western and northern counties received only minimal amounts. August continued hot and dry in most areas until the end of the month when heavy rains came, mostly too late for crops to recover from drought damage.

Cool weather in early September slowed the maturing process of row crops but corn was close to the normal schedule with over 80 percent mature by mid-month while soybeans were a few days behind schedule and cotton was 2 weeks late. Corn harvesting proceeded at a normal pace through the fall season, reaching 93 percent complete by November 1. Soybeans harvesting was 5 days behind average at 75 percent harvested and cotton was 67 percent harvested, a week late. Grain and bean harvesting reached completion in November but cotton harvesting continued into early December.

Soybeans: Production in 2003 totaled 143 million bushels, down 16 percent from the 2002 crop, and 23 percent below the 2001 production. Farmers in Missouri harvested 4.94 million of the 5.00 million acres planted in the State. Missouri yields averaged 29 bushels per acre, 5 bushels below the 2002 yield. Nationally, Missouri ranks fifth in harvested acres and seventh in production. The State production is valued at \$1.08 billion, 15 percent more than the 2002 crop.

Corn: Production in 2003 totaled 302 million bushels, 7 percent above a year earlier but 13 percent below the 2001 production. Yields for the State averaged 108 bushels per acre, up 3 bushels from 2002. Out of 2.9 million planted acres, corn for grain was produced from 2.8 million acres and silage was cut on 80,000 acres. The total value of grain production was estimated at \$756 million, 9 percent above the 2002 crop value. Silage yields averaged 10.5 tons per acre, 2.5 tons less than a year earlier. Silage production totaled 840,000 tons, down 8 percent from 2002.

Winter Wheat: Production of 53.1 million bushels in 2003 was up 55 percent from the previous year. Of the 960,000

planted acres, 870,000 were harvested, 14 percent more than 2002. Missouri yields averaged a record 61 bushels per acre, up 16 bushels from 2002. Value of the crop is estimated at \$162 million, up 56 percent above last year.

Sorghum: Production totaled 16.2 million bushels, 3 percent more than in 2002. Of the 215,000 acres planted, 210,000 were harvested for grain, 14 percent more than a year earlier. Average yield for the State was 77 bushels per acre, 8 bushels below the 2002 yield. Grain production was valued at \$39.4 million, 6 percent more than the 2002 crop. Sorghum silage yields averaged 8 tons per acre, up from 6 tons a year earlier.

Cotton: Production is estimated at 710,000 bales, 16 percent above the 2002 level. The State yield is estimated at a record high 874 pounds compared with 796 pounds a year ago. Missouri farmers harvested 390,000 of the 400,000 acres planted. Value of the lint is estimated at \$211 million, 63 percent above the previous crop value. Cottonseed production totaled 263,000 tons, a 21 percent increase from a year earlier, while value of cottonseed was up 59 percent to \$32.9 million.

Rice: Production in 2003 totaled 10.5 million cwt, down 5 percent from a year earlier. The record yield of 6,130 pounds is 80 pounds above the previous record of 2002. Farmers harvested 171,000 of the 175,000 planted acres. Value of the crop is estimated at \$68.1 million, 59 percent above the 2002 crop value.

Tobacco: Production in 2003 totaled 2.60 million pounds, 16 percent less than in 2002. The State yield of 2,000 pounds is down from 2,385 pounds a year ago. Farmers harvested 1,300 acres of tobacco, unchanged from the low level of the previous 2 years. The crop is valued at \$5.02 million, 15 percent below the 2002 value.

Potatoes: Commercial potato production in 2003 totaled 1.88 million cwt, 45 percent above the 2002 production. The 7,100 acres harvested produced a yield of 265 cwt, up 25 cwt from the 2002 yield. The value of the crop is estimated at \$10.8 million, 28 percent above a year ago.

Oats: Production of 1.21 million bushels amounted to a 28 percent decline from 2002. Farmers harvested 18,000 acres for grain from the 35,000 acres planted. State oat yields averaged a record 67 bushels, up 19 bushels from 2002. Value of production is estimated at \$1.99 million, 36 percent less than the 2002 crop.

Hay: Production of all hay in 2003 totaled a record 8.17 million tons, 4 percent above the level of the past 2 years. Missouri hay yields averaged 1.92 tons per acre, compared with 1.84 tons in 2002. Alfalfa hay acres totaled 450,000, down 2 percent from 2002. Alfalfa yields averaged 2.95 tons, 0.05 ton below a year ago, while production was down 4 percent at 1.33 million tons. Acres of other hay held unchanged at the record 3.8 million of 2002. Yields of other hay averaged 1.80 tons, up 0.10 ton from the previous year, while production was up 6 percent to 6.84 million tons.



Missouri Crop Production, 2002-2003

| Crop | Unit | Acres Harvested | | Yield per Acre | | Production | |
|----------------------------|------|--------------------|-------|------------------|-------|--------------------|---------|
| | | 2002 | 2003 | 2002 | 2003 | 2002 | 2003 |
| | | <i>-thousands-</i> | | <i>-bushels-</i> | | <i>-thousands-</i> | |
| Corn for Grain | bu. | 2,700 | 2,800 | 105.0 | 108.0 | 283,500 | 302,400 |
| Corn for Silage | ton | 70 | 80 | 13.0 | 10.5 | 910 | 840 |
| Sorghum for Grain | bu. | 185 | 210 | 85.0 | 77.0 | 15,725 | 16,170 |
| Sorghum for Silage | ton | 1 | 5 | 6.0 | 8.0 | 6 | 40 |
| Soybeans | bu. | 5,000 | 4,940 | 34.0 | 29.0 | 170,000 | 143,260 |
| Winter Wheat | bu. | 760 | 870 | 45.0 | 61.0 | 34,200 | 53,070 |
| Oats | bu. | 35 | 18 | 48.0 | 67.0 | 1,680 | 1,206 |
| All Rice ^{1/} | cwt. | 182 | 171 | 6,050 | 6,130 | 11,011 | 10,484 |
| Long Grain ^{1/} | cwt. | 182 | 170 | 6,050 | 6,130 | 11,011 | 10,421 |
| Medium Grain ^{1/} | cwt. | --- | 1 | --- | 6,300 | --- | 63 |
| All Potatoes ^{2/} | cwt. | 5.4 | 7.1 | 240 | 265 | 1,296 | 1,882 |
| Cotton ^{3/} | bale | 368 | 390 | 796 | 874 | 610 | 710 |
| Cottonseed | ton | --- | --- | --- | --- | 218 | 263 |
| Tobacco | lb. | 1.3 | 1.3 | 2,385 | 2,000 | 3,101 | 2,600 |
| All Hay | ton | 4,260 | 4,250 | 1.84 | 1.92 | 7,840 | 8,168 |
| Alfalfa Hay | ton | 460 | 450 | 3.00 | 2.95 | 1,380 | 1,328 |
| Other Hay | ton | 3,800 | 3,800 | 1.70 | 1.80 | 6,460 | 6,840 |
| Watermelon | cwt. | 5.1 | 4.7 | 260 | 295 | 1,326 | 1,387 |
| Apples ^{4/} | lb. | --- | --- | --- | --- | 36,000 | 40,000 |
| Peaches ^{4/} | lb. | --- | --- | --- | --- | 8,000 | 10,000 |
| Grapes ^{5/} | ton | --- | --- | --- | --- | 2.90 | 2.80 |

1/ Yield in pounds, production in hundredweight.

2/ Yield and production in hundredweight.

3/ Yield in pounds, production in 480 lb. bales.

4/ Utilized production in pounds.

5/ Utilized production in tons.

Value of Missouri Crop Production, 2002-2003

| Crop | Unit | Average Value Per Unit | | Value of Production | |
|----------------------------------|------|------------------------|--------|---------------------------|------------------|
| | | 2002 | 2003 | 2002 | 2003 |
| | | <i>-dollars-</i> | | <i>-thousand dollars-</i> | |
| Corn | bu. | 2.45 | 2.50 | 694,575 | 756,000 |
| Grain Sorghum | bu. | 4.22 | 4.35 | 37,161 | 39,390 |
| Soybeans | bu. | 5.54 | 7.55 | 941,800 | 1,081,613 |
| Winter Wheat | bu. | 3.03 | 3.05 | 103,626 | 161,864 |
| Oats | bu. | 1.85 | 1.65 | 3,108 | 1,990 |
| All Rice | cwt. | 3.90 | 6.50 | 42,943 | 68,146 |
| Potatoes | cwt. | 6.50 | 5.75 | 8,424 | 10,822 |
| All Hay | ton | 67.50 | 66.50 | 502,020 | 478,020 |
| Alfalfa Hay | ton | 111.00 | 105.0 | 153,180 | 139,440 |
| Other Hay | ton | 54.00 | 49.50 | 348,840 | 338,580 |
| Cotton | lb. | .443 | .620 | 129,710 | 211,296 |
| Cottonseed | ton | 95.00 | 125.00 | 20,710 | 32,875 |
| Tobacco | lb. | 1.900 | 1.930 | 5,892 | 5,018 |
| Watermelons | cwt. | 5.80 | 5.50 | 7,691 | 7,629 |
| Apples ^{1/} | lb. | .178 | .208 | 6,396 | 8,310 |
| Peaches ^{1/} | lb. | .420 | .620 | 3,360 | 6,200 |
| Grapes ^{1/} | ton | 615.00 | 608.00 | 1,783 | 1,701 |
| Total Crops ^{2/} | --- | | | 2,509,199 | 2,870,874 |

1/ Value of utilized production.

2/ Total value of principal crops excluding minor commodities not shown above.

United States Crop Production, 2002-2003

| Crop | Unit | Acres Harvested | | Yield per Acre | | Production | |
|----------------------------|------|-----------------|--------|----------------|-------|------------|----------|
| | | 2002 | 2003 | 2002 | 2003 | 2002 | 2003 |
| | | -thousands- | | -bushels- | | -millions- | |
| Corn for Grain | bu. | 69,313 | 71,139 | 130.0 | 142.2 | 9,007.7 | 10,113.9 |
| Corn for Silage | ton | 7,490 | 6,528 | 14.0 | 16.2 | 105.0 | 105.9 |
| Sorghum for Grain | bu. | 7,299 | 7,798 | 50.7 | 52.7 | 369.8 | 411.2 |
| Sorghum for Silage | ton | 352 | 343 | 9.5 | 10.4 | 3.36 | 3.55 |
| Soybeans | bu. | 72,437 | 72,321 | 38.0 | 33.4 | 2,749.3 | 2,417.6 |
| All Wheat | bu. | 45,917 | 52,839 | 35.3 | 44.2 | 1,619.0 | 2,336.5 |
| Winter Wheat | bu. | 29,751 | 36,541 | 38.5 | 46.7 | 1,145.6 | 1,707.1 |
| Oats | cwt. | 2,093 | 2,224 | 56.7 | 65.0 | 118.6 | 144.6 |
| All Rice ^{1/} | cwt. | 3,207 | 2,997 | 6,578 | 6,645 | 211.0 | 199.2 |
| Long Grain ^{1/} | cwt. | 2,512 | 2,310 | 6,260 | 6,451 | 157.2 | 149.0 |
| Medium Grain ^{1/} | cwt. | 668 | 644 | 7,815 | 7,366 | 52.2 | 47.4 |
| Short Grain ^{1/} | cwt. | 27 | 43 | 5,615 | 6,293 | 1.52 | 2.71 |
| All Potatoes ^{2/} | ton | 1,270 | 1,250 | 362 | 367 | 459.8 | 459.0 |
| Cotton ^{3/} | ton | 12,427 | 12,058 | 665 | 725 | 17.2 | 18.2 |
| Cottonseed | ton | --- | --- | --- | --- | 6.184 | 6.694 |
| Tobacco | lb. | 429 | 416 | 2,049 | 1,997 | 878.6 | 831.2 |
| All Hay | ton | 64,497 | 63,342 | 2.34 | 2.48 | 151.0 | 157.1 |
| Alfalfa Hay | ton | 23,135 | 23,578 | 3.19 | 3.24 | 73.8 | 76.3 |
| Other Hay | ton | 41,362 | 39,764 | 1.86 | 2.03 | 77.1 | 80.8 |
| Watermelons | cwt. | 150 | 150 | 261 | 257 | 39.0 | 38.5 |
| Apples ^{4/} | lb. | --- | --- | --- | --- | 8,375.0 | 8,897.5 |
| Peaches ^{4/} | lb. | --- | --- | --- | --- | 2,741.5 | 2,413.8 |
| Grapes ^{5/} | ton | --- | --- | --- | --- | 7.34 | 6.32 |

1/ Yield in pounds, production in hundredweight.

2/ Yield and production in hundredweight.

3/ Yield in pounds, production in 480 lb. bales.

4/ Utilized production in pounds.

5/ Utilized production in tons.

Value of United States Crop Production, 2002-2003

| Crop | Unit | Average Value Per Unit | | Value of Production | |
|----------------------------------|------|------------------------|--------|---------------------|----------------|
| | | 2002 | 2003 | 2002 | 2003 |
| | | -dollars- | | -million dollars- | |
| Corn | bu. | 2.32 | 2.45 | 20,975 | 24,804 |
| Grain Sorghum | bu. | 4.14 | 4.40 | 876 | 966 |
| Soybeans | bu. | 5.53 | 7.25 | 15,215 | 17,465 |
| All Wheat | bu. | 3.56 | 3.35 | 5,679 | 5,574 |
| Winter Wheat | bu. | 3.41 | 3.25 | 3,835 | 7,955 |
| Oats | bu. | 1.81 | 1.45 | 216 | 218 |
| All Rice | cwt. | 4.49 | 7.25 | 980 | 1,485 |
| Potatoes | cwt. | 6.69 | 5.85 | 3,064 | 2,687 |
| All Hay | ton | 92.40 | 92.90 | 12,450 | 12,331 |
| Cotton | lb. | .457 | .638 | 3,777 | 5,582 |
| Cottonseed | ton | 101.00 | 117.00 | 616 | 784 |
| Tobacco | lb. | 1.938 | 1.967 | 1,703 | 1,635 |
| Watermelons | cwt. | 8.36 | 8.99 | 327 | 346 |
| Apples ^{1/} | lb. | .188 | .194 | 1,572 | 1,730 |
| Peaches ^{1/} | lb. | .204 | .193 | 504 | 467 |
| Grapes | ton | --- | --- | 2,842 | 2,535 |
| Total Crops ^{2/} | --- | --- | --- | 95,072 | 106,091 |

1/ Value of utilized production.

2/ Total value of principal crops including fruits, nuts, vegetables and other minor crops not shown above.

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